

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (previously presented) A system for use in a vehicle comprising:
 - a microphone array with at least two microphones; and
 - a superdirective beamformer with fixed superdirective filters;
 - where the superdirective beamformer is a regularized superdirective beamformer using a finite regularization parameter μ that is frequency dependent.
- 2-3. (canceled)
4. (previously presented) A system according to claim 1 where each superdirective filter results from an iterative design based on a predetermined maximum susceptibility.
5. (previously presented) A system according to claim 1 where each superdirective filter comprises a filter in the time domain.
6. (previously presented) A system according to claim 1 where the signal processing means further comprises at least one inverse filter for adjusting a microphone transfer function.
7. (previously presented) A system according to claim 6 where the at least one inverse filter comprises a warped inverse filter.
8. (previously presented) A system according to claim 6 where each inverse filter comprises an approximate inverse of a non-minimum phase filter.

9. (previously presented) A system according to claim 6 where each inverse filter is combined with a superdirective filter of the beamformer.

10. (previously presented) A system according to claim 1 where the beamformer comprises the structure of a generalized sidelobe canceller (GSC).

11. (previously presented) A system according to claim 1 where the beamformer comprises a minimum variance distortionless response (MVDR) beamformer.

12. (previously presented) A system according to claim 1 where the microphone array comprises at least two microphones arranged in an endfire orientation with respect to a first position.

13. (previously presented) A system according to claim 12 where the microphone array comprises at least two microphones arranged in endfire orientation with respect to a second position.

14. (previously presented) A system according to claim 13 where the at least two microphones in the first endfire orientation and the at least two microphones in the second endfire orientation comprise a microphone in common.

15. (previously presented) A system according to claim 1 where the microphone array comprises at least two subarrays.

16. (previously presented) A system according to claim 15 where the at least two subarrays comprise at least one microphone in common.

17. (previously presented) A system according to claim 1 further comprising a frame where each microphone of the microphone array is arranged in a predetermined position in or on the frame.

18. (previously presented) A system according to claim 17 where the predetermined position comprises a fixed position in or on the frame.
19. (previously presented) A system according to claim 1 where at least one microphone comprises a directional microphone.
20. (previously presented) A system according to claim 19 where the directional microphone comprises a directional microphone with a cardioid characteristic.
21. (previously presented) A system according to claim 19 where the directional microphone comprises a differential microphone.
22. (previously presented) A system according to claim 1 comprising a vehicle coupled to the microphone and the beamformer.
23. (currently amended) A system for use in a vehicle comprising:
a microphone array with at least two microphones and a superdirective beamformer having fixed superdirective filters;
where the superdirective beamformers are configured with a predetermined susceptibility that is based on a relative error of the microphone array;
where the relative error of the microphone array is a sum of mean square error of transfer properties of each microphone in the microphone array and a gaussian error with zero mean of microphone positions.
24. (canceled)
25. (previously presented) A system according to claim 23 where at least two microphones in the microphone array are arranged in an endfire orientation with respect to a first position.

26. (previously presented) A system according to claim 25 where at least two microphones in the microphone array are arranged in an endfire orientation with respect to a second position.

27. (previously presented) A system according to claim 23 where at least one microphone comprises a directional microphone.

28. (previously presented) A system according to claim 27 where the directional microphone comprises a directional microphone with a cardio characteristic.

29. (previously presented) A system according to claim 27 where the directional microphone comprises a differential microphone.